California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM
ORDER NO. R1-2006-0028
(REPLACES ORDER NO. R1-2005-0120)

For

HUMBOLDT WASTE MANAGEMENT AUTHORITY
CUMMINGS ROAD SOLID WASTE DISPOSAL SITE
CLASS III WASTE MANAGEMENT UNIT
WDID NO. 1B79133OHUM

Humboldt County

MONITORING

Compliance with this Monitoring and Reporting Program (MRP), and with the companion Standard Provisions and Reporting Requirements, is ordered by Cleanup and Abatement Order (CAO) No. R1-2006-0028, pursuant to Water Code Section 13267(b). Failure to comply with this MRP, or with the General Monitoring and Reporting Requirements, can result in the imposition of civil monetary liability under California Water Code sections 13350 and 13268.

Any person affected by this action of the Regional Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with California Water Code Section 13320 and Title 23, California Code of Regulations, Section 2050. The petition must be received by the State Water Board within 30 days of the date of this Order. Copies of the law and regulations applicable to filing petitions will be provided upon request. In addition to filing a petition with the State Board, any person affected by this Order may request the Regional Water Board to reconsider this Order. To be timely, any such request must be made within 30 days of the date of this Order. Note that even if reconsideration by the Regional Water Board is sought, filing a petition with the State Water Board within the 30-day period is necessary to preserve the petitioner's legal rights. If you choose to request reconsideration of this Order or file a petition with the State Water Board, be advised that you must comply with the Order while your request for reconsideration and/or petition is being considered.

SAMPLING AND LABORATORY ANALYSIS

1. Surface water and storm water monitoring points shall be sampled and analyzed in accordance with the following table:

Sampling Point (1)	**Sampling Frequency**	**VOCs (2)**	**SVOCs (3)**	**General Laboratory Parameters (4)**	**Field Parameters (5)**	**Daily Rainfall**
S-1	Daily				X	
S-1	Two Times A Week**(6)**	X	X	X		
S-7	Monthly**(7)**	X	X	X	X	
S-8 or S-8A	Daily				X	
S-8 or S-8A	Two Times A Week**(6)**	X	X	X		
S-9	Daily				X	
S-9	Two Times A Week**(6)**			X		
French Drain Discharge Pipe FD-1	Twice A Month**(8)**	X	X	X	X	
French Drain Discharge Pipe FD-2	Twice A Month**(8)**	X	X	X	X	
Behind First Toe Berm Silt Fence	Two Times A Week**(6)**	X			X	
Behind First Toe Berm Silt Fence	Twice A Month**(8)**		X	X	X	
Spring/Seep Downgradient of Leachate Tank	Two Times A Week**(6)**	X			X	
Spring/Seep Downgradient of Leachate Tank	Twice A Month**(8)**		X	X	X	
At Landfill**(9)**	Daily					X
Nearby Official Weather Station**(9)**	Daily					X

(1) S-1 is downgradient of the toe berm and lower sediment pond discharge; S-7 is downgradient of the interception trench discharge pipes; S-8 is from the upper sediment pond discharge pipe; S-8A is from the upper sediment pond near the outlet pipe; and S-9 is a new point on Ryan Creek, upgradient of landfill activities that shall be established by the Discharger. French drain pipe locations FD-1 and FD-2 are on the south and north sides of the toe berm, respectively. Behind the first toe berm silt fence is a location established at the toe berm silt fence that is farthest uphill. The spring/seep downgradient of the leachate tank is the location of spring/seep identified by field personnel as a location that has high specific conductivity. The location of this sample point shall be formally established and presented in the next monitoring report both on the map and by narrative. All sample locations and identifications shall be clearly marked on the site map.

(2) Volatile Organic Compounds (VOC) shall be analyzed using a full scan EPA Method 8260 (low level). Laboratory turnaround times shall be selected to allow all results for the month to be evaluated and presented in the monthly report by the 15th of the following month.

(3) Semi-volatile Organic Compounds (SVOCs) shall be analyzed using a full scan EPA Method 8270. Laboratory turnaround times shall be selected to allow all results for the month to be evaluated and presented in the monthly report by the 15th of the following month.

(4) General laboratory parameters for the purposes of this Monitoring and Reporting Program include total suspended solids, total dissolved solids, chloride, ammonia, and potassium. Laboratory turnaround times shall be selected to allow all results for the month to be evaluated and presented in the monthly report by the 15th of the following month.

(5) Field parameters are turbidity, pH, specific conductance, dissolved oxygen, and temperature, estimated flow (gallons per minute)

(6) Sampling personnel shall select the days of the twice a week sampling based on rainfall. One sample shall be taken during or following the wettest period expected during the week and one sample shall be taken following the driest period during the week. The week for the purpose of determining sampling shall run Sunday to Saturday. The two samples may not be taken on the same day of the week. For weeks expected to be dry or raining for the entire week, the two samples shall be taken at least a day apart.

(7) Monthly sampling at S-7 shall be scheduled for a time of significant precipitation or immediately following the storm event, when possible.

(8) Sampling personnel shall select the twice-monthly sampling days based on rainfall. One sample shall be taken during or following a wet period during the month and one sample shall be taken following a dry period during the month. The two samples shall be taken a minimum of seven days apart.

(9) The locations of the rain measuring stations shall be given in the monthly report.

2. All testing, other than field parameters, shall be performed at a laboratory certified by the California Department of Health Services.

3. Instruments used for field parameters shall be kept in good condition and calibrated according to manufacturers requirements.

4. The Discharger shall inspect the site during or immediately following rainfall events which exceed 0.50-inch of precipitation in a 24-hour period at either rainfall monitoring station to determine if leachate seeps are occurring. A field log of the inspection shall be made and submitted to the Regional Water Board with the daily sample results, and shall be included in the monthly monitoring report. If leachate seepage (other than seeps collected and transported to storage facilities) is occurring, the Discharger shall mark the location of the occurrence; test and measure the seepage for field parameters listed in Note 5 of Item No. 1; take immediate steps to prevent leachate from discharging to surface waters; and report the occurrence to the Regional Water Board by telephone within 24 hours. Leachate seeps shall be surveyed using GPS or traditional surveying, plotted on a site topographic map, and given discrete identification to use in reference to any sampling or observations. If repeat breakouts occur at the same location, the original location identification shall be used for repeat occurrences. Any seepage on the landfill footprint, toe berm, or transition areas adjacent to the landfill shall be considered to be leachate unless chemical analyses can prove otherwise. Any seeps detected during this inspection, found during normal operations, or during follow-up inspections shall be tested and measured for field parameters listed in Note 5 of Item No. 1.

REPORTING

5. A monthly report shall be submitted by the 15th day of the month, beginning on April 15, 2006 and include all sampling results from the previous month.

6. Each report shall contain a map showing the monitoring locations, topographic contours, and major site features. A second topographic map of the current landfill topographic contours and showing the major site features shall be presented with the locations of the seeps detected during the month. This map shall be of a large enough scale that the locations are accurately shown. The report shall include a narrative discussion of water quality sampling and seep detection and response, including notations of any water quality violations, preceding tabular summaries of the water quality data for the sampling locations specified in Item No.1, and tabular summaries for any seeps detected during the month. Tabular summaries shall include notation to clearly indicate when a data point has violated water quality standards; violated the Site's WDR prohibition to discharge to surface water, surface water drainage systems, or groundwater; or both. Either of these violations is a violation of the CAO.

   Any detection of a man-made compound in the landfill drainage or surface water is a discharge violation. To determine if the landfill has contributed to the discharge for naturally occurring compounds, data shall be compared to results from the upgradient sampling location S-9. Any discharge of a naturally occurring compound statistically greater than background is a violation. The calculation of background shall include consideration to variations that occur due to rainfall.

Records from daily rainfall measurements shall be included. Daily rainfall and estimated flow data shall be tabulated. In reporting the monitoring data required by this program, the Discharger shall arrange the data in tabular form so that the date, the constituents, the concentrations, and the units are readily discernible. The data shall be summarized in such a manner as to clearly illustrate compliance, or lack thereof, with the CAO. These reports shall be made by, or under the direction of, a professional civil engineer, or registered geologist, and be signed and stamped by this professional.

7. Each report shall also contain copies of the field sampling log, chain of custody, including the date and time of sample collection, the name of the person collecting the samples, the signed lab sheets including QA/QC, daily field logs, and leachate seep inspection logs.

8. The results of any monitoring done more frequently than required or at additional locations shall be reported to the Regional Water Board.

9. Results of the sampling field parameters and field logs from leachate seep detection inspections shall be submitted via facsimile, prior to 5:00 p.m. each business day on the day of sample collection or inspection, to 707-523-0135, attention Gina Morrison.

10. Analytical results for the general laboratory field parameters, VOCs and SVOCs shall be sent directly from the laboratory to our office via facsimile to (707) 523-0135, attention Gina Morrison, the same day they are submitted to the Discharger.

Ordered by _____
Catherine E. Kuhlman
Executive Officer

March 13, 2006